

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

*PUBLICATION NUMBER : 2003173889
PUBLICATION DATE : 20-06-03

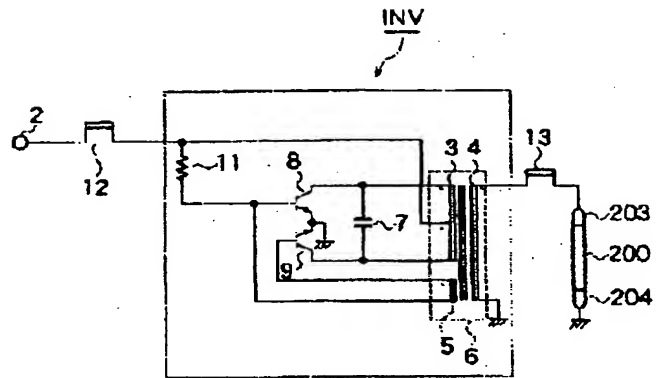
APPLICATION DATE : 06-12-01
APPLICATION NUMBER : 2001373154

APPLICANT : HARISON TOSHIBA LIGHTING CORP;

INVENTOR : NAKANO HIROTERU;

INT.CL. : H05B 41/24 H01J 65/00

TITLE : DIELECTRIC BARRIER DISCHARGE
LAMP DRIVING DEVICE



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide a dielectric barrier discharge lamp driving device capable of lengthening effective length of a lamp by expanding resonance frequency area of a self-exciting oscillation inverter circuit for the dielectric barrier discharge lamp, and by restraining a breakage or generation of corona caused by the deterioration of an electrode when impressing high voltage to the minimum.

SOLUTION: For the dielectric barrier discharge lamp driving device, a direct current 2 is inputted, and the dielectric barrier discharge lamp 200 is connected to the high voltage side of a secondary winding 4 of an inverter transformer 6 having an inverter circuit INV utilizing respective self-exciting oscillations through an element 13 having inductance component. By the above, the reactance component fed back from the secondary side of the inverter circuit is reduced, and the resonance frequency area of a self-exciting oscillation inverter circuit is expanded, and the inverter circuit can be driven by a frequency higher than before.

COPYRIGHT: (C)2003,JPO